Field Trip No. 7

Northern Tablelands, Darling Downs, Surat, Liverpool Plains

27/3/1941 — 11/4/1941

K. H. L. Key

Seventh Field Trip. (27/3/41 – 11/4/41)

Northern Tableland, Darling Downs, Surat, Liverpool Plains.

From Morisset, range of steep timbered hills to left of road, hunting across road to right & left at ca. Brunkerville. Except for cleared country ~~from~~ between Gosford & Wyong, all timbered. A little cleared round Morisset. At Brunkerville (19396) Consid. clearing, opening directly into H.R.V. Brunkerville to Mulbring we are in a tongue of the H.R.V., with timbered barrier hills to right & left. After the Cessnock turn-off, we enter timber & some hills at 403, which continue (at least the timber) to Cessnock at 411, extending a good way to the north.

Cessnock (411) to Branxton :- Cleared all the way, except for a patch of timber, mainly uncleared, at 422 – 425 (Branxton). Branxton – ca. 433, somewhat hilly, w. a little timber. Gently undulating to flat from 433.

Singleton (441) – Denman :-

444-6 Brown & red brown sandy loam heeless & cleared almost flat. 446-69 Gently hilly iron bark dotwood woodland, hard pale red brown sandy loam. O-C. – 6ox – from 461 Steep timbered hills at 2-3 miles left of road. 463-69

1963-4: { Austrachis gutturosa
Aiolopus tamulus
Froggattina australis

flat plain, skirted by pale red-brown hard hills to left. Brown greasy. 1963. Chotorichites occ. Austrachis occ. 464. Watercourse w. heavy sm. dark choc. soil to right of road. Margins brown greasy & more or less bare. Pasture couch. Pasp. distich. (?) occ. Chloris sp.. Dense in watercourse. Photos 2+ 3. Oedaleus & Pusilla fairly & numerous on bare areas. Chot. & Aiolopus quite numerous in watercourse & frequent elsewhere. Froggattia & Pycnostictus occ. A little further on, in dense & green couch pasture, no bare space, found 18/200 yds. This would be consid. less than those at watercourse. Jemjo Plains at 466.

469-71 mainly pale red-brown hard, with ironbark. & Hunter River patch of ~~mixed~~ country with water course 71-5 hilly country a ridge, mainly a.l. box & dogwood. hard pale red brown & some fine & slightly self mulching red soil. 75: A road crosses ridge & another flat lies probably ~~mixed~~ to the left. 75-81 more hilly country with ironbark, n.l. box, & dogwood & kurrajong. Soil hard pale red-brown & a little fine- slightly sm. red-brown. 81-83 (Denman) acts. of compact & sm. 491 No Chot/200 yds. on flat, greasy - slightly sm. red. grey soil w. couch, Chloris, Eragrostis sp. (spec.) & Marsilea in ca. equal props. little bare space.

Pottsdale (Cleveroff) ~~(1952)~~ (1955Z)

0-2 - 2 ft sandy shoal medium loam alluvium
2 heavy s.m. black fm basalt & pale brown
Land, white box woodland. Hilly

2-7 - 70 alluvium of pale brown & red brown
Land & red-brown to chocolate - finish slightly
self-mulching with very occasional small patches
of black

70 - 75' about all land pale brown & red brown
with small patches black heavy self-mulching at 75'
Timber range to left obtain 61 & 79. 75-97 (Tam.)
also. timber esp. of pale brown - red-brown Land, &
red-brown to choc. slightly - mod. sim., with occ.
patches heavy sim. choc. - black. woodland
all way from Murrurundi, w. white box dom.
with other mucs., mid. NL box.

Tamworth (597) - Armidale :-

97 - 605 As before all self-mulching

0-5 - 14 Pale Land to sandy podsolised - all
woodland - white box & other mucs. Timber
range to left

Col ~~X~~ - 18. Timber on range

At Armidale:- Oedaleus, Acrida. 1971 3-6: {Perala viridis / Phaulacridium vittatum
1972 2: {Perala viridis / Goniaea sp.

1968-27 Woodland with patches dense timber
27-31 about ½ woodland ½ dense timber
31-43 ditto or dense timber slight ∞ scarce XS.
43-Arm. woodland with small clumps timber
Trassaltia below. Denmant Nursellbrook. C. Davies has record from Springridge (Liverpool Plains).

Armidale-Glen Innes:-
67ft-82 hilly woodland on land brown
82-92 ditto on pale podsolic soil
92-96 dense timber on Land brown
(Glen I.)
696-741 woodland on firm gravelly purple-brown soil derived from basalt. 700. Caledia, Eastmargus, Oedaleus, Chorthippus. Pasture mainly "Andropogon".
Guyra 703. In low-lying areas soil approaches black, rises slightly sm. 713. Swampy area w. "andropogon".
Laxabilla smaragdina smaragdina (R), Praxibulus sexsculptus (R)
Scipops, etc. Eastmargus, Austroicetes, Praxibulus (?),
Bermius brachycerus (R) Atractomorpha ochraticeps australis (R)
Bermius, Attractomorpha. Perala. Soil near black, slightly sm. 775: Oedaleus, Caledia, Eastmargus,
Laxabilla smaragdina inter S. smaragdina & S. acuta (R)
Phaulacridium, Acrida, Austroicetes.
Tenterfield (799)-Killarney:- 799-805 woodland on pale brown hard. 805-40 Dense timber on pale hard. not common enough clear.
Moraba fraternula (R)
812. Phaulacridium & others. 40-59 (Glen) woodland not common enough pale yellow. From ca. 55, a little

rain-forest may be seen on the hill-tops to the left. From Legume to Killarney soil is more or less black, derived from basalt, & originally covered with rain-forest. Now cleared & densely pastured with ca. 2ft. high grass.

2 miles up the valley from Killarney:- Remains of rain forest on mod. sm. choc.-black. Mainly dense Paspalum. Heteractomorpha crenaticeps, intermed. betw. C. crenaticeps & C. australis (R)
Foll. spp. in add. to those coll.:- Austalris gutt., Acrida, Chortoicetes (2).

Killarney - Warwick (1871): 71-80 alts. of heavy sm. black, mod. sm. choc. to brown, and a little firm brown to choc. on rises. 880. On firm pale brown rise: Oedaleus, Austroicetes pusilla
pusilla, Acrida, Froggattia, Chortoicetes. 80-86 excellent short term alts of heavy sm. black & pale red. brown to brown hard, the former treeless, the latter cleared mainly
from N.L. box. 86-92 (Warwick) Hard pale red-brown, slightly sandy in places, with N.L. box, cabbage, rother ecs.

The collections of Tipuna & Cedarinia were mainly made from the firm-slightly sm. rises on the Warwick-Toowoomba road. There were more of these rises on

19900: Cedarinia sp., Tipuriga sp.
19934: Morabe cultrata carissima (atypical)(R), Cedarinia sp., Tipuriga sp., Phialacridium wittatum

the eastern (wet-weather road) than on the dry weather road, but apparently little or no hard.

(1963)
Toowoomba – Oakey: – 63-66 Red loam. 66-67 dark red-brown 67-81 alts & intergs. of black heavy sm. & chocolate-brown firm & hard Macrotoma sp. All gently hilly so far. Woodland. 977 No Chost./200 yds. 2-3 ft. dense B. blue-grass. A. Sutt. numerous – ca. 100/200 yds. Tipuriga occ. Soil hard, firm brown. 81. Oakey.

Oakey – Cooyar: 81–2005 alts & intergs. of hard-firm brown, cleared from grey-brown & dark gb., & mod. sm. dark grey. From 87 / Helah. mulga & poplar box. 88. A. Sutt., Acrida, Aiolopus, Froggattia, Cedarinia sp. occ. Chost. 19999. No Chost. in 200 yds 2ft. dense pasture of blue-grass, Sporobolus, Eragrostis, little Chloris, etc. A. Sutt., Acrida, Gastr. (1), Tipuriga (occ.) Cedarinia (occ.) Bermius, Froggattia (occ.) ca. 2000 3' (Kulpi) a little brigalow – new scrub on deep red-brown. ca. 20005 – 20025 (Cooyar) alts. & intergs. of pale greasy, hard or sandy, with ironbark & other mucs, and heavy sm. & dark grey-black., the former (pale) predominating. Only partially cleared from ca. 14.

Cooyar – Bell: 25 – 31 alts of pale hard & heavy sm. black. 31 – 44 mainly alts of hard dark red-brown, hard choc., & heavy black sm. patches on flats. 35 – 41 mainly uncleared. All hilly. 41–44 / brig. cleared / Helah. – mulga & Cedarinia sp., Velarifictorus sp., Conphuta sp., talls w. new scrub. 43. Collecting site on Tenamia sp.

Moraba cultrata cultrata (R), Ecphantes sp., Macrotona securiformis
sw. scrub. Also scen: Banksia, Thunb., Acacia, A. Salt.

200
44 – 59 Alts of hard brown w. bor & dark grey sm., mainly
Acc. cleared, the heavy soil mainly from brig.-bush patches; sw. scrub
former. 48. Maclagan. patches also present.

From 59. no more sw. scrub 20061 Kimkillenbun.

Apparently I got off the Cooyar-Bell road at ca. 41,
& was then following the Maclagan-Bunya Mts road.
The soil must be considered favourable
throughout the area traversed, though from 25 to ca.
44 the hills are pretty steep, & much un-cleared &
~~unclear~~ partly cleared timber would impede
movement.

(680) Kimkell Tipuana sp.
Dalby-~~Kelt~~. 82 Qk 1? Chost. 200yds 3ft. high dense blue-grass-
dominant pasture on grassy-mod. sm. dark grey. 80-83
(Kim turn-off) Slow alts of fine pale & mod. sm. dark
grey. 83-93 (Kim) Heavy sm. ~~if~~ black, ~~89-93 (Kim)~~ not quite
so jet from ca. 89. From 89 occ. patches bor on slightly
lighter soil, though still heavy sm. Perfectly flat to 91, then
very slightly undulating to Kim, which is at head of a
valley, low hills at a distance on both sides from ca.
89. Small hard, slightly stony rise (only few ft) at 93.
From Kim it is still mainly heavy dark sm. for ca. 1 mile
along Maclagan road.

20(112)

Kim-Kum-Off to Bell:- [Most intelligent woman said that locusts had been breeding in the Hayfield area (the lighter soil area from Dalby to the nurseries station) during 1935 & 1936 before they spread in 1937 to her place (almost at Kim.) The two seasons "1935 & 1936" (presumably 1935-6 & 1936-7) had been dry. Yes of the present density had not been developed.] 112-117 Heavy sm black, slightly with patches of pop box. lighter in places. Quite flat to 115, then very gently undulating (Bell) hard- with Eucs, 117-34½ Gently hilly, ~~sandy~~ fine choc, often stony, ½ Eucs, art. woodland (pop. box, mainly on lower & flatter country, & hers) alternating with heavy sm. black & choc. soils in the hollows & small flat plains, sometimes connecting with main plain to SW. Mels & Hemis alts. Tepuna & Cedrela absent except for one record near Dalby. Aust Sett. numerous, esp. on black plains. Froggatti also present at almost all sites examined. App. regrowth long grass rather than light soil.

Bell-Jandowae via Cooranga (34) 41. Sw scrub. Valonia, A. Sett. approx., Capparis, Acacia, Phaut. 34-50 alt. white gs. of hard-firm brown & choc & heavy sm choc. in hilly country alternating with Eucs. (box & others), brigalow belah, & sw scrub in ca. equal props. Clears to ca. 41. Then small patches of

including timber & large areas of partially cleared.

20151 – 56 hard brown, w. pop. bon & euca. forca. 2 miles, then
nl ironbark dom., mixed with cabbage on rises. Partly
? Euc. maculata (family certain)
cleared to 53, dense timber from 54 to 56. 56 – 60 mainly pop
or hard brown to pale red-brown
bon nl ironbark alt. w intergo.) with patches of brigalow
Acacia pustulifera (app.) (R), Lacabilla managhia
on fim-hard brown-choc. 159. Assn. of pop. bon, dwlga,
brig. occ. acuta (R)
~~Eucal~~ & belah on fim-hard brown. No chert in 200yds 2 ft.
dense pasture of blue-grass – Chloris sp. (tall). A. gutt. & pron,
Eucal. more numerous than I have seen in this latitude
(ca. 20 – 30/20 on ~~E~~). Note that this soil is lightish, but
good growth good. App. East. requires light soil. 60 – 69 (gandowae)
Very mixed assn. including intergo. of bon, brig, belah,
dwlga, sw scrub-types, bl ironbark & even occ. pine, on
hard-fim brown to red-brown. One or two patches heavy
fim choc. w. brig. belah from 65.
(170)
Gandowae – Chinchilla. 70 – 72 greasy – mod. fm dark grey.
72 – alts. w intergs. of pop. bon on greasy – hard brown & red-
= Angophora lanceolata, perhaps also Euc. maculata (on hard)
brown & nl ironbark w. occ Cabbage & Moreton Bay ash
on brown – pale hard-sandy. Small patches of brig. belah
on fim brown frequent to 76, then rare. 184. No chert/200yds.
1 ft. post. of couch, Chloris truncata & Eragrostis sp. in ca
Eucal props. on brown hard-greasy. Dedalieno. A few chert
nymphs seen in sparse pasture along road 85 – 92.

20192 (Chin.)

(212)

Chinchilla - Miles :- 12-15 box on pale - pale red-brown
hard sandy. 15- Brig. lilah on pale grey ~~hard~~ firm - heavy
Sm. 216 attempted to count Chost., but countn't on
account of num. Diplopus. Chost. was, however,
occ. Florida num. A. gutt., Trost., Old. Pasture w.
couch & Eragrostis sp. prominent. Occ. bottle trees.
216 - 223 ml ironbark, & bull oak & w. occ. pop. box, & wattle.
pine pale grey
Small patch orig. - lilac at 19 on firm - slightly Dsn.
scanty
223 - 230 orig. on pale gr. firm & lightly dsn., with very well
dev. melonholes. 229 No chost. in roads sarcible
density pasture, incl. Chloris & Digitaria. A. gutt. &
Diplopus num. Florida. Schizostachyum 230 - 34 ml ironbark,
pine, bull-oak occ. box, occ wattle, only ca. ¼ cleared, on
hard
pale & red sandy. 34 - 41 (Miles). Same, wattle more
numerous. Practically uncleared.

(212)

Miles - Condamine +2 - 50 alto of ml ironbark - bull oak -
+ occ. cabbage
pine, on hard & sandy pale & pale purplish with pop. occ -

Country from miles to Condamine rather less than ½ cleared.

very occ. N.B. ash & yarran

pine - buddah on pale red-brown & brown hard & sandy. but pine only very occ!

2015 0 - 54. Box - pine - buddah only. 54 - 60 Same as on, plus occ. whitewood & punnate-leafed tree, very occ. bufwood & mulga. 60 - 63 (Condamine) Pop. box - buddah - mulga on hard pale red-brown. Small patch pine - slightly sm. at 63. 63 - 65 Box - buddah - mulga on hard pale red-brown. 65 - 70 Brig. & blew on pine - mod sm med. gr. 70 - 72 Box - buddah - mulga. 72 - 76 Box - pine - buddah - tall occ mulga & cabbage dark bark on hard & sandy pale rh. 76 - 80 med. terminals of box - pine - buddah - bull-oak on pale rh. hard & sandy occ bufwood and belah - mulga, occ. brig, occ. box on fine brown. 80 - 86 Box - pine - buddah - bull-oak - tall occ on med rh. hard & sandy. occ. belah, occ. mulga. 86 - 88 Blew on fine - mod. sm med. gr. with melonholes. 88 - 94 Box - pine - buddah - bull-oak; occ. bl. ironbark, occ. cabbage, occ. brig, belah, tall occ & rather open on hard, pale & sandy rh. 295 - 302 Blew on fine - mod. sm med. gr., occ. box in one small area. 302 - 9 Box - pine - bull-oak, occ. bl. ironbark, occ. rl. ironbark, v. occ. cabbage on pale rh. & pale pinkish rh. 9 - 16 Box - pine - bull-oak - buddah - bl. ironbark, with some isolated brig & belah on hard & sandy pale rh. & some med. rh. & red. Tending to slightly sm. at

NB. The species commonest in S. Qld at present time are all moisture loving – Aonida, A. gutt., Axilopus.

Pasture mainly couch, sometimes mitch Sporobolus to 2ft on lighter areas, & couch, mitchell + Digitaria/on heaviest. A. gutt. very numerous on heavier areas Lolium v. occ. Chost. intermediate.

20309. where brig-belah thickest + down. 316–18 Box, etc. as before, no Hbw. 18–19 Box-belah-mulga on mod. sm. brown. 19. Surat road leaves highway. I took ~~S~~ Highway. Too dark now to make obs. Timber uncleared, or partially & quite ineffectively ring. from Condamine to the Roma-Surat road. There was a small clearing at Tinowon (318), + more cleared country at 28–30 and at 36. Otherwise dense timber. (359)

Surat – Glenmorgan :- 360 13 Chost. in 200 yds. 1ft + past. of ? Sporobolus sp. (sample) + a couch (sample) some flinders with a little bare space. Aust. Satt. present, but less num. than Chost. No brachystegia spp. seen. Open plain, soil fine – mod. sm. dark brown. Ca. same no. could be seen ~~as~~ less than a mile further on, on heavy sm. dark brown, mainly ? couch + flinders. less than 1ft., pract. no bare space. 59–75. Alts + intergs. of heavy sm. black, heavy sm. dark brown, mod. – heavy sm. mod. grey, and fine-hard pale brown w. laterite pebbles. Open plain or natural or art. woodland of bl. brombark ? Acacia sp. + pop. box, occ. whitewood. Sm. soil strong by clom. 369. 8 Chost. / 200 yds. 9" – 1ft. past. of couch, Sporobolus, button grass + flinders panic on hard pale brown to mod. sm. brown. 75–80 Consid. denser woodland of

Eucalyptus, box, bl. ironbark, isolated stunted brig.,
isolated belah, buddah, occ. myall, whitewood on
rocky - mod. sm. pale - red. grey, very similar to
that in Taroom region 20380 - 90 alts of mod. sm. gl.
with
~~loading to 6~~ grim-grassy pale brown ~~close woodland~~.
Open forest w. box & bl. ironbark. 383 2 Chost / 100 yds. 1 ft.
dense past. Aristida - Chloris mne., slight bare space.
1. Sutt. fairly common 90 - 400 / box - buddah - bl. ironbark, occ.
(Glenmorgan)
occ. pine, rosewood mulga & sandy brown grass
bl. ironbark, on hard pale red. b., rb & red b 393 4 Chost. /
- Galv. rollypoly
100 yds. 6" - 1 ft. Aristida - Chloris on hard red, consid.
bare space. Qld., A. Sutt. Acrida. 96 Small patch brig. belah,
box on mod sm gl. Ca. ½ cleared from 90.
(400) Meandarra cleared
Glenmorgan - ~~Taroom~~ 400 - 402 As before, 402 - 414 Dense
uncleared brig., w. occ. belah & box on grim - mod sm.
pale - red brown & gb w. mull - dev. melon holes. 14 - 16
(Meandarra) box, bl. ironbark, belah & brig on grim & hard
pale rb & rb., cleared.
Meandarra - Condamine: 16 - 23 alts & intergr. of brig - bel.
on grim - mod sm gl. & box - bl. ironbark on hard-greasy
pale rb. & brown. 23 - 29 Box - bl. ironbark, occ. pine, occ.
brig., occ belah, on hard-greasy brown to red. Cleared to
25. ca. ½ cleared ~~to~~ 25 - 27. ~~29~~ uncleared 27 - 40. 29 - 40

brig-belah on fsm-heavy sm gh + brown, eucs. + wilga
(Condamine)
~~occ~~ frequent from 38.20440 - ~~47~~ ~~wyatt, box, wilga (cleared)~~
~~on heavy sm. gh.~~ Short-term alts + wintergs. of heavy sm.
med-dark gh + pale greasy, with box, buddah, myall,
wilga + coolibah. Mostly cleared. pine + ballook
w. nl ironbark ~~etc~~
Condamine - ~~Dalby~~ Kolan (51) :- 561 - 59 box-buddah-pine/on pale
nh hard, cleared to 55, then uncleared. 59-67 nl ironbark,
alts+wintergs
pine, bulloak, occ. cabbage, occ. wattle. 67-72 iron-buddah,
(Eucalyptus dumosa (A))
wilga, belah, occ. brig on hard greasy pale nh + brown. 72-84
hard country, pale nh + pale purplish ~~etc~~ hard + sandy,
with box, nl ironbark, pine, bulloak \ occ. cabbage.
on greasy
84-87 alts + wintergs. of box buddah + brig. belah wilga
on fsm, mod sm. 87-96 hard pale, nl ironbark, etc.
(Kagan)
(74)
Kagan - Dalby :- 446 - 510 nl ironbark. pine, mulga + bk
occ. cabbage + box on pale hard. Ca. ½ cleared to 499, then
practically uncleared to 509. 510-17 pop. box, plus yarran
to 15 on greasy - mod. sm. med. grey. rambling
hillmerran - Dandilla country. All cleared from 509.
(1)
East at 515. 510 3: Chost, 200 yds to ca ¼ ft. pantun, mainly
Salonis - Eragrostis. a little blue grass. a little dare
Eragr. 517-19 teh, gum + box around Condamine R. (at 8) on
same soil types. 520 not more than 1 Chost, 200 yds. 1-2 ft.

past. of Sporobolus, Eragrostis & blue-grass on ~~hard~~ greasy-
mod. sm. med. grey. East. (1) 20520 - 29 (Dalby) Similar country,
with box, yarran in places (no ash or gum) but with perhaps
rather more definite short- med. term alts. of greasy and
heavy- mod. sm black- dark grey. Occasional small
open plains, these having the heaviest soil. Dalby
itself is still on this intermediate type of country,
similar to that round Yandilla, or rather heavier.
Certainly not on heavy sm black plain. (Cf. notes on
road to Bell. Prob. the 20 miles before Dalby would be
mod.
fav. for mult. of short.

Dalby - Oakey (532) :- 32 - 35 short- med. term. alts. of heavier
heavy sm black and pop. box woodland w. occ.
mulga, yarran, ~~brig~~ on greasy. 35 - 36 Cleared to Hab-
Fadden Bet's winter p. 5
mulga on heavy sm dark grey. 36 - 43 Str. box woodland on
very occ. greasy mid/dk rb. 9' - 2ft.
to dark
greasy - heavy sm. pale grey, ~~brig~~ l. 539 Short, 200 yds of blue-
grass - Chloris - Sporobolis on greasy, mod & heavy sm. grey.
Typ. Eriachne, Dichanthium, Iseilema, Aristida. 5+2. Photo 4.
dense
showing typical past. of blue grass for this stretch, with a
little Chloris in foreground. Fine box. Sod greasy - ~~brig~~ Hy
sm. med. gr. 43 - 45 Excellent short term alts. of heavy sm.
black in lower lying hollow areas & greasy pale

gh. w. box woodland on higher area. 40-48 box woodland on mod. sm. dark grey. 48-55 Open plain (rules) on fict black heavy sm. ? Bowenville at +9.20552 (1) no chat, woody. 2ft. very tufty pasture of curly mitchell. Sporobolus sp. a much-branched Aristida. + Chloris ?acicularis. A little more space between tufts. 1 A. gutt. (Aplus) 55-56 (Sand.) mod sm. dark grey, loosing up to 57-59 greasy pale gh. partly cleared from beloh-mulga-box on low rise. 59-65 (Darling) heavy, some acts of heavy sm. black, mod sm. choc. & hard pad at b., rules. flat iov. gently undulating plain.

Toowoomba - Leyburn (58+)

Toowoomba (41) 91-77 heavy self mulching chocolate, salty Lick, with patches fine choc. on rises. 75-605 Hakea w. choc. fine rises, sm. choc. 60. hispecma. 605-13 heavy sm. choc. plain. 13-14 hard pad at. ridge w. pop. wax + mulga. 14-19 shed (on all sides of self to chalk. + pale very heavy grey with box woodland. 19-20 hard pale red heavy to light silty box 20-21-22 heavy sm. chocolate. 22-29 (Leyburn) Hard & heavy pale red. heavy with grey, chocolate, Cattle, ? common (in poplars Cunnabell) occ. pine.

Leyburn - Warwick (62-3) 29-32 as before Clear 32-36 alluvial of pale red more & pale more heavy grey with yellow box, r.g. box occ. bull box / apple

c676-41 poplar box – , a.-l. box or pale yel brown gravelly, artif.
woodland. 41-45 (Karara) hard, gravelly pale brown
w. nl ironbark, nl box white box. At. woodland.
Karara-Lyndwood. 55-65 mainly uncleared nl
ironbark, nl box & white box on hard brown. 670 (just inside
beyond Omanama. 1 Chost/200 yds. 2 ft. blue-grass + 2
spp. Eragrostis + a little alundra panicle about. 9 mi.
Soil very pale grey gravelly. small amt. bare space.
Pasture fairly dry. 682 1 Chost/200 yds. 1 ft. Eragrostis +
rather blue-grass on gravelly pale brown. Cowid
inconspicuous. Pasture rather dry. Qld. A. pun. Hakea (cas)
4. Justicia(1). Eragrostis. Lyndwood 685. From 77-8, there
were also tinteys. of brig. white + box on grey-mod.
grey brown, with melonholes + brown mod. Brig.
mostly small.
Lyndwood (681) - Texas. 83-5 Poplar box + a.l. in back
on heavy pale brown + hard pale brown. (85-9 uncleared
cleared
a.l. ironbark dead wood on hard gravelly brown. 89
Boggabri-Texas a heavy self mulching dark grey brown 89-97
a.-l ironbark, nl box &c. fine occ. valley like elsewhere, on
gravelly-brown, red brown & purple brown uncleared 697-701
ditto dark ± cleared 701- + ditto uncleared 704-17 (Texas)

nl box, bl ironbark, pop. box rather occas. on brown greasy & pale gr. & pale purplish hard, some gravelly, occ. rich nr. hard. white box also, from 14 to ca. 16.

Texas (20716) - Bonshaw: - 18-26 nl box, pops. box & bl. ironbark (common) on pale gr. greasy. Cleared. Troggatia at Texas. 26-35 (1)

nl. box, bl ironbark & white box on hard pale brown & purplish gravelly, 727 No Chost/200 yds. 2-3 ft. (alluvial flats in valley, creek flats). blue-grass - Eragrostis, very little bare space. Pale brown hard fine soil. Troggatia, Ded., Acacia, A. gutt. Leucio.

Bonshaw - Ashford. 35-60 (Ashford) bl ironbark, white box, nl box on brown & pale hard, mostly w. coarse purplish gravel or brown stones. Pop. box also to +3. Gently hilly

Ashford - Inverell: 60-64 ditto 64-71 & 60-64 b-c. Cinbark very common. 64-71 nl box white box & (Inverell) n. l. ironbark on red soil. 72-76 white nl box on short-med. term: also of heavy grey choc & black fine- med. grey deep nr., & hard nr. (common) 785 Chost/200 yds. 2 ft. dense blue-grass, very little bare space. Soil med. grey choc. Ded. Dox. A. gutt.

Inverell - Bundarra: - 77-03 All of heavy dk choc. Land pale hard & brown with dark under Basalt 803-03' hard fab rare tables + nl & ironbark - & cleared

20805 - 09. at first hard dark red brown subsoil then
then hard pale uncleared 09 - 19 hard pale subs
agric. woodland & cattle land from 19-22 ship
desert Road rail mainly white box, about ½ cleared.
22-27 (Bundarra) Mt. box & some Mt. ironbark on
pale hard w. purplish gravel.
Bundarra (27) - Barrabba :27 - 35 Lava. pale subsoil
with purplish gravel - var. euc. agric. woodland
timber killed & reported from 32 35-8 chiefly
practically uncleared. 38 - 50 ditto about ½ cleared
50 - 55 pale hard & red stony Land Same but
fairly cleared 58 - ca. 66 also of fine black
red brown & grey & euc. fine & med. S.W. dark red
brown & chocs. about ½ cleared. 63 - 71 (Barrabba). hard.
cleared.
Barrabba (71) - Gunnedah. 75. Gunnedah num-off. 876. No
chart, woods. 10" - 15". Danthonia pasture w. a little
"Andropogon" & Eragrostis. Consid. rare spaces, mainly
large, separated by fairly close patches of grass. 1 A. cult.
Soil hard pale brown. Mt. box. 75-76 Short loam also ½
hard pale brown, pale Mt. brown, with red. g's. slightly sm.
76-99 Hard brown. w. some pale brown & pale. Mt. box

+white box 20885. ?1 Chost/200 sqs. 1ft. "Andropogon" plus a little Panicum + Stipa variabilis. A little bare space. Pale hard. 99-901 white box pink & hard brown 904 — 907 white box, + Eucalyptus, pink hard loam + hard pale rh. 907 12 Chost/200 sqs. 1ft. Stipa ? variabilis - Chloris ?. some herbage, + mod. amt. bare space on brown hard. Occ. Chost. hoppers. 907-8. rl box, white box in bare pale red brown hard ground, fine cracks 11-12 Eucalyptus rl. rimbark & pink pale red brown hard — Cleared rape bright 07-17 scattered Tilia 2'6" Cleared bleak 919 1Chost/200 sqs. dense Triodia - Eragrostis. ?. no bare spaces, on pale rh. greasy ?. +white box + myall. Not typical opaca. Occ. A. spin. Pop. box appears from 17. 19-21 pop. box, mulga, + ?acacia +white box on brown greasy. 22-28 (Cunnedah) Med. dense, alto. of heavy clay (but very loose round.) Chac. ?. plains grass + Scirpus, ?rib brown rh. greasy ?. pop. box. Cunnedah (731) - Breeza :- 920 7 [illegible]

20939.

Specimen.

21021

21071 2 Chat/ scoops 9" – 2ft. part. Chloris – Eragrostis – lucerne + Stipa ? variabilis. 2 A. gutt. Soil pale – med. rb. hard, 80–84 (Bimmaway) Eucs. on pale rb + pale brown hard – sandy. Bimmaway (84) – Mendooran (Merrygoen) – Merrygoen brim 1ft (88)
85–96 Sandy rhan pale ~pale red brown with ens
96–98 med. red brown, brown, Road with ens + pine
98–106 pale rb sandy w. ens + pine. 106–111 (Merrygoen) med. rb brown hard, w a little pale rb + a little dark, white + rd iron + pine. 111–120 (Mendooran). Med. rb. hard w. rd ~~white~~ iron pine to ca. 118. Then pale rb. sandy to Mendooran.

Mendooran to Dunedoo (Merrygoen to 1ft 126) 26–44 (Dun) + pine
med. rb. hard, w. a little pale rb sandy. Rd + white box, small patch mod. Sm dam rb along Talbragar Rd at 42. a little rd iron bark + dogwood on places.

Dunedoo (44) – Gulgong. 44–57 Pale rb + brown hard + some sandy with app. natural ens. woodland. Kurrajong from ca. 57 (196) Obs outpost from 63.

Rudfee – Bathurst. 196–217 Pale brown hard hilly, Cleared. 217–20 Steep timbered hills (white box) 220 Hargraves. (mining town) 20–27 ca ½ cleared. 27–34 Cleared. 34–44 ca ½ cleared. 41. Hill End. 44–47 less than ½ clear 47–55 Ca ½ Cleared. 55–58 Cleared. 58–63 (89).

ca ½ cleared. ~~1263~~ - 65 (Sofala) cleared. 65-68 uncleared white box on dark clay. 68-74 ca. ½ cleared on pale brown clay, 74-84 cleared, less stony in places. 84 uncleared patch. 84 - ca. 97 (Bathurst) cleared.

(318)

Blayney - Cowra:- 18-28 (Carcoar) Same country as Bathurst - Blayney. Pale hard Cleared. 28-38 Ditto. 38' Soil becoming definitely more strongly coloured - pale "creamy" red-brown - pale brown. 47 - Pale red. (red brown.)







2 miles E of Jerrys Plains, N.S.W. Probable outbreak centre of Chort. watercourse on heavy self-mulching chocolate soil, with growth of couch & water couch. Top of banks compact greasy brown soil, more or less base. Chort. adults & A. subtubosa nymphs present in watercourse.

29/3/41

KHG.K.

~~4(b)~~
3(b)

[Pl. 8(a) of Bull. 186, 1945]

10 mls. E of Dalby, Q. along railway line. Typical pasture for this area; Dwarf blue-grass with a little Chloris truncata in foreground. Rung box. Soil grey to slightly self-mulching medium grey-brown. After exceptionally wet season.

April 1941

KHG.K.

~~4(a)~~
3(b)